

Patent Abstracts of Japan

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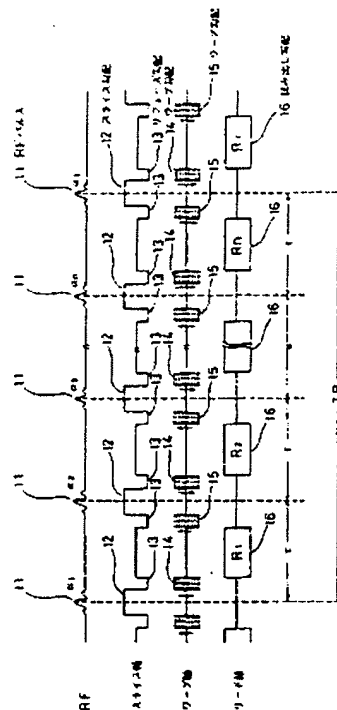
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TITLE : HIGH SPEED MR IMAGING METHOD



ABSTRACT : PURPOSE: To simultaneously obtain plural images whose contrasts are different by selecting suitably a combination of plural RF pulses having an arbitrary flip angle, and a combination of plural gradient waveforms for observing an echo of a different type.

CONSTITUTION: As for RF pulses 11, flip angles are selected freely to each equal value such as a_1 to a_n , and different values, an interval of each RF pulse 11 is set as π , and by (n) pieces of RF pulses, one repeat period ($1TR$) is constituted. A slice gradient 12 sets an integral value of a gradient magnetic field per 1τ time applied in the slice direction by a rephase gradient 13 to zero, and sets a spin to a stationary state. A warp gradient 14 sets an integral value of a gradient magnetic field area per 1τ time applied in the warp direction by a warp gradient 15 to zero, and sets a spin to a stationary state. As for a read-out gradient 16 for observing an echo signal, a gradient of each equal value and a different waveform is selected arbitrary and applied between the RF pulses 11 such as R_1 to R_n . As for the read-out gradient 16, if an area of a waveform applied between the RF pulses 11 is equal, that of any waveform can be used.

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